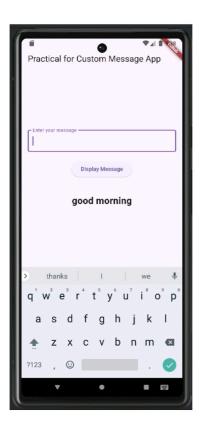
```
Prac - 5 (A) (Custom message)
Code:
import 'package:flutter/material.dart';
void main() {
runApp(const CustomMessageApp());
}
class CustomMessageApp extends StatelessWidget {
 const CustomMessageApp({Key? key}) : super(key: key);
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Practical for Custom Message App',
   theme: ThemeData(
    primarySwatch: Colors.purple,
   ),
   home: const CustomMessageScreen(),
  );
class CustomMessageScreen extends StatefulWidget {
 const CustomMessageScreen({Key? key}) : super(key: key);
 @override
 CustomMessageScreenState createState() => CustomMessageScreenState();
```

```
class _CustomMessageScreenState extends State<CustomMessageScreen> {
 String message = 'The message will come here';
 final TextEditingController _controller = TextEditingController();
 void updateMessage() {
  setState(() {
   message = controller.text;
  });
  _controller.clear(); // Clear the text field after submitting
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: const Text('Practical for Custom Message App'),
   ),
   body: Padding(
    padding: const EdgeInsets.all(16.0),
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
       TextField(
        controller: _controller,
        decoration: const InputDecoration(
         border: OutlineInputBorder(),
         labelText: 'Enter your message',
        ),
       ),
       const SizedBox(height: 20),
```

```
ElevatedButton(
      onPressed: _updateMessage,
      child: const Text('Display Message'),
     ),
     const SizedBox(height: 40),
     Text(
      _message,
      style: const TextStyle(
       fontSize: 24,
       fontWeight: FontWeight.bold,
      ),
      textAlign: TextAlign.center,
     ),
   ],
  ),
 ),
);
```



Prac – 5 (B) (Simple Calculator)

Code:

```
import 'package:flutter/material.dart';

void main() {
  runApp(const CalculatorApp());
}

class CalculatorApp extends StatelessWidget {
  const CalculatorApp({Key? key}) : super(key: key);

  @override

Widget build(BuildContext context) {
  return MaterialApp(
    title: 'Practical for Simple Calculator',
    theme: ThemeData(
```

```
primarySwatch: Colors.purple,
   ),
   home: const CalculatorScreen(),
  );
 }
class CalculatorScreen extends StatefulWidget {
 const CalculatorScreen({Key? key}) : super(key: key);
 @override
 _CalculatorScreenState createState() => _CalculatorScreenState();
}
class _CalculatorScreenState extends State<CalculatorScreen> {
 String output = '0';
 String _operand = ";
 double num1 = 0;
 double num2 = 0;
 void buttonPressed(String buttonText) {
  setState(() {
   if (buttonText == 'C') {
    output = '0';
    num1 = 0;
    num2 = 0;
    operand = ";
   } else if (buttonText == '+' || buttonText == '-' || buttonText == '×' || buttonText == '÷') {
    num1 = double.parse( output);
     operand = buttonText;
    _output = '0';
```

```
} else if (buttonText == '=') {
   num2 = double.parse( output);
   if ( operand == '+') {
    _output = (_num1 + _num2).toString();
   } else if (_operand == '-') {
    _output = (_num1 - _num2).toString();
   \} else if (_operand == '×') {
    _output = (_num1 * _num2).toString();
   } else if (_operand === '÷') {
    _output = (_num1 / _num2).toString();
   _{num1} = 0;
   num2 = 0;
   _operand = ";
  } else {
   if (\_output == '0') {
    _output = buttonText;
   } else {
    output += buttonText;
   }
  }
});
Widget buildButton(String buttonText) {
 return Expanded(
  child: Padding(
   padding: const EdgeInsets.all(8.0),
   child: ElevatedButton(
    onPressed: () => buttonPressed(buttonText),
    child: Text(
```

}

```
buttonText,
      style: const TextStyle(
       fontSize: 24.0,
       fontWeight: FontWeight.bold,
      ),
    ),
   ),
  ),
);
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: const Text('Practical for Simple Calculator'),
   backgroundColor: Colors.purpleAccent,
  ),
  body: Column(
   children: <Widget>[
    Expanded(
      child: Container(
       padding: const EdgeInsets.all(24.0),
       alignment: Alignment.centerRight,
       child: Text(
        _output,
        style: const TextStyle(
         fontSize: 48.0,
         fontWeight: FontWeight.bold,
        ),
       ),
```

```
),
),
Column(
 children: <Widget>[
  Row(
   children: <Widget>[
     _buildButton('7'),
     _buildButton('8'),
     _buildButton('9'),
     _buildButton('÷'),
   ],
  ),
  Row(
   children: <Widget>[
     _buildButton('4'),
     _buildButton('5'),
     _buildButton('6'),
     _buildButton('×'),
   ],
  ),
  Row(
   children: <Widget>[
     buildButton('1'),
     _buildButton('2'),
     _buildButton('3'),
     _buildButton('-'),
   ],
  ),
  Row(
   children: <Widget>[
     _buildButton('0'),
```

```
_buildButton('C'),
    _buildButton('='),
    _buildButton('+'),
    ],
    ),
    ],
    ),
    ],
    ),
    ]);
}
```

